

100

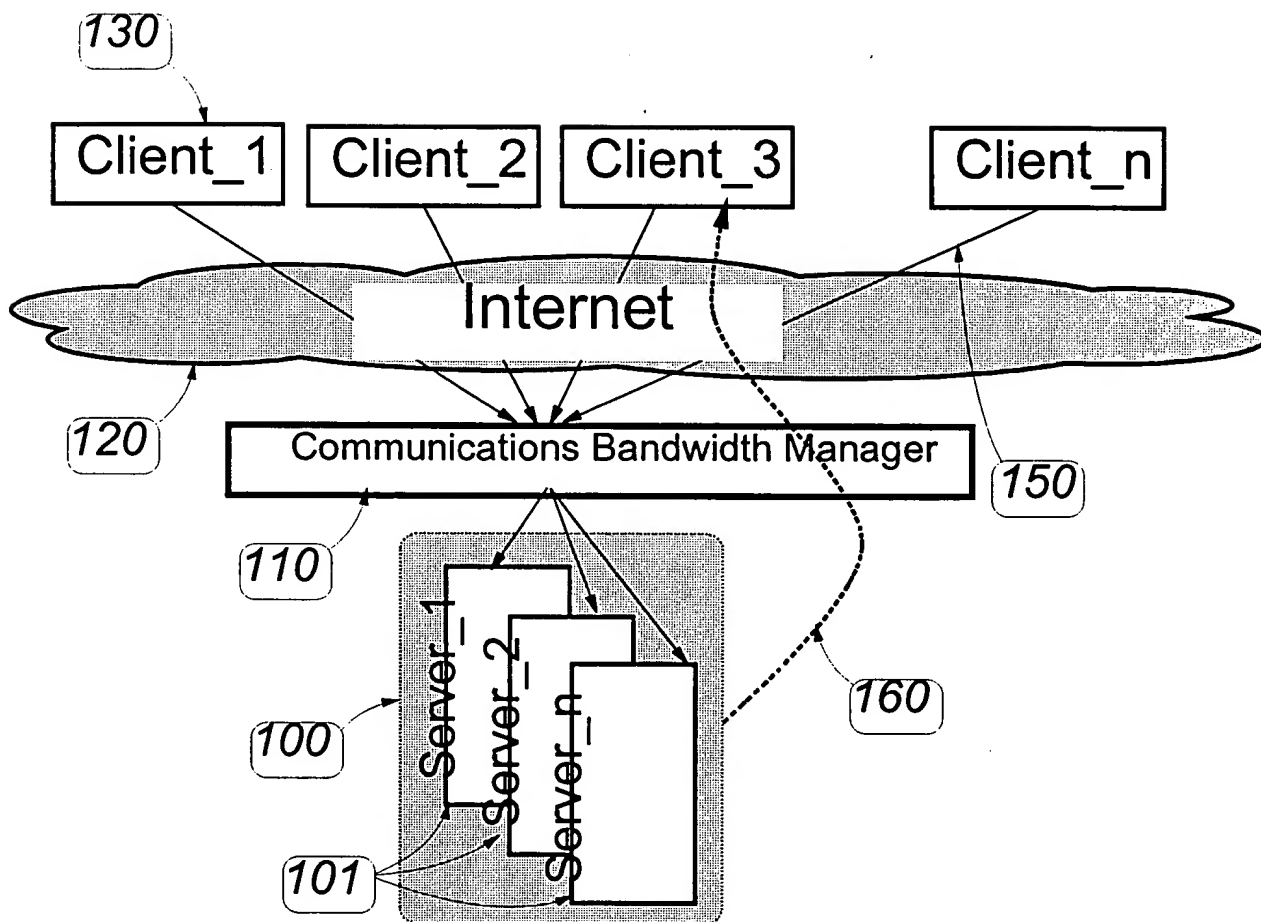


Figure 1



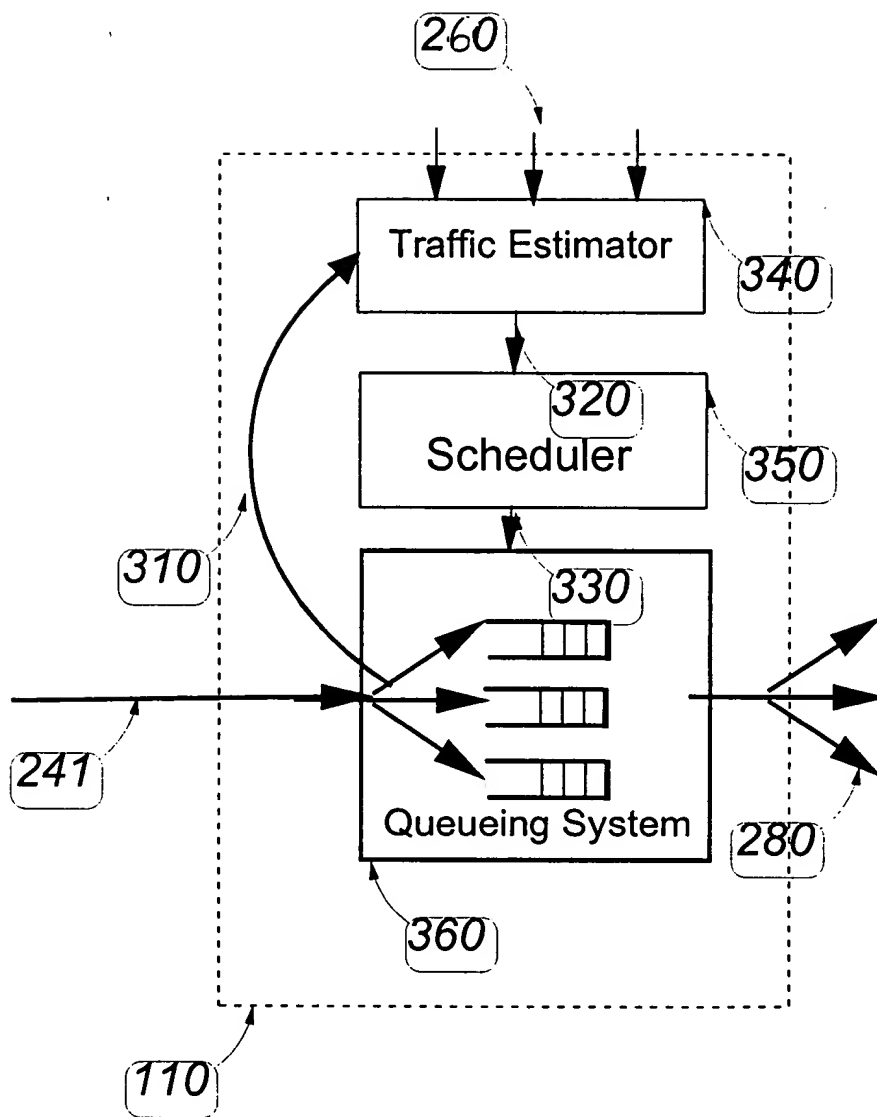
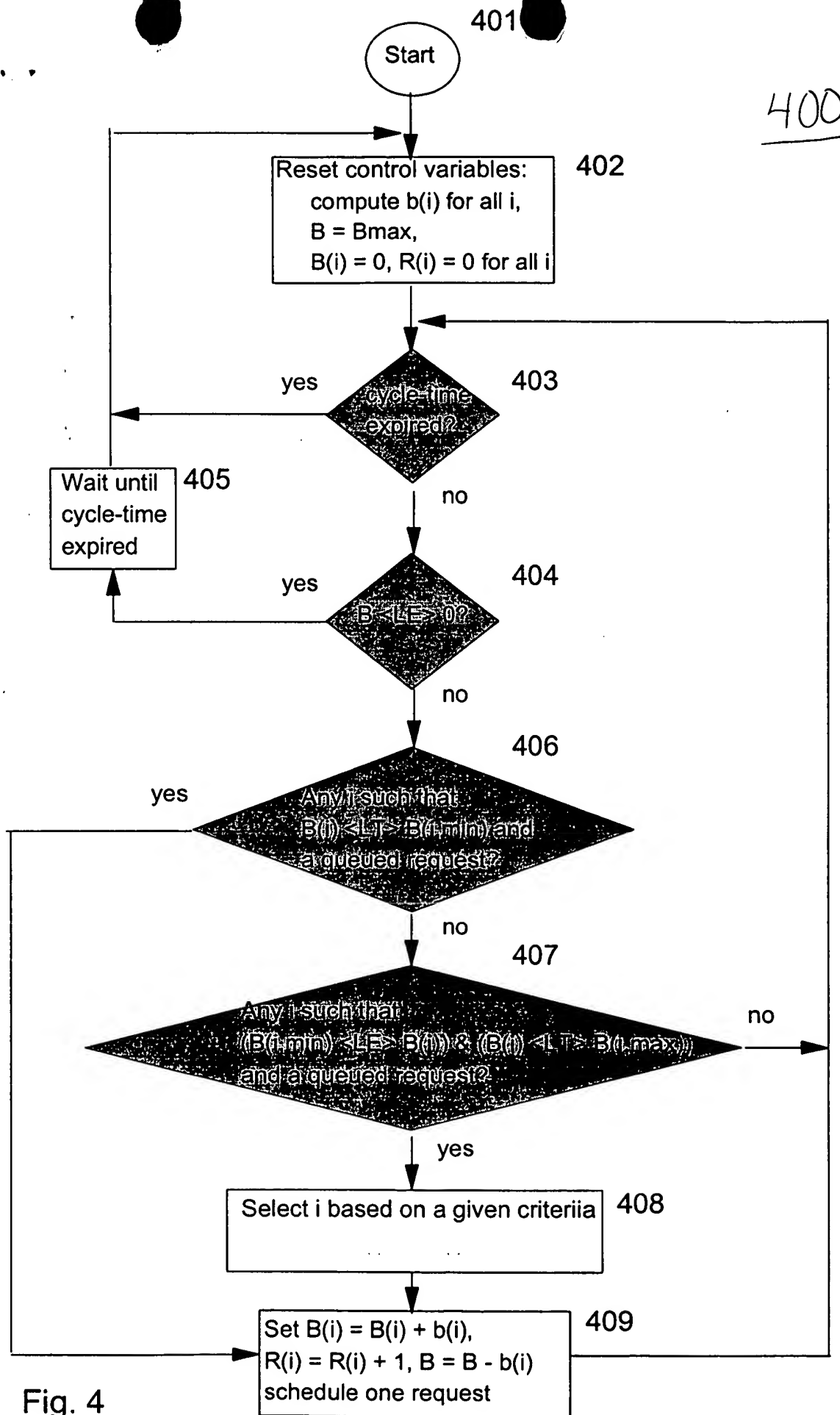


Figure 3.



For all i

$$Ra(i) = (1 - a)Ra(i) + aR(i),$$

$$Ba(i) = (1 - a)Ba(i) + aBm(i),$$

$$b(i) = Ba(i) / Ra(i).$$

where

$Ra(i)$ represents averaged/smoothed number of requests

$Ba(i)$ represents averaged/smoothed bandwidth usage

$Bm(i)$ represents the measured/monitored bandwidth usage
all in a service cycle time, and

$b(i)$ represents the expected bandwidth usage by a one request

Fig. 4B

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